

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Boschetti et al.	Confirmation No.:	1038
Serial No.:	10/692,785	Art Unit:	1618
Filed:	October 27, 2003	Examiner:	D.L. Jones
For:	POLYVINYL ALCOHOL MICROSPHERES AND METHODS FOR MAKING AND THERAPEUTIC USES OF SAME	Attorney Docket No:	9676-314-999

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on modified Form PTO-1449 is a listing of documents submitted to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. Copies of these references are also submitted herewith.

The submission of any document herewith is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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### **TIMING OF THE DISCLOSURE**

This Information Disclosure Statement is being filed before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

References F01-F03 are in English and references F05 and F06 have an English-language abstract. References F04, F07 and F08 are in Japanese. Applicants provide herein a brief description of the subject matter disclosed in references F04, F07 and F08.

#### **Reference F04**

- Superabsorbent polymer (SAP) particles are spherical permanent embolic substances for which an appropriate particle diameter can be adjusted, and TAE treatment using these particles demonstrated strong tumor necrosis with respect to HCC.
- Post-embolization pain is mild, and the quantities of anticancer agents and lipiodol can be reduced, so SAP particles are conducive for use in patients with reduced liver function or elderly patients.

#### **Reference F07**

- Summary of current status of the embolization technology using SAP resin.
- Reporting the practicability of the technique in tumor therapies (*e.g.*, hepatocellular cancers, soft-tissue tumors, renal cell cancers, renal arterial muscle adipic tumors, and bone metastases), arteriovenous malformation, AVF, etc.

#### **Reference F08**


- General review of embolic materials including SAP-microspheres for their physical characteristics, clinical applications.
- Presenting clinical results using SAP-microspheres in a uterine fibroma case and a hepatocellular cancer case.

The Commissioner is hereby authorized to charge the fee under 37 C.F.R. 1.17(p) and any additional fees which may be required to maintain the pendency of this application, or credit any overpayment, to Jones Day Deposit Account No. 50-3013.

Respectfully submitted,

Date:

August 29, 2005

  
Ricardo J. Moran

(Reg. No. 48,735)

**JONES DAY**

51 Louisiana Avenue, N.W.

Washington, D.C. 20001-2113

Telephone: (202) 879-3939

Facsimile: (202) 626-1700

*For:* Anthony M. Insogna

(Reg. No. 35,203)

**JONES DAY**

12750 High Bluff Drive

Suite 300

San Diego, California 92130

Telephone: (858) 314-1200

Facsimile: (858) 314-1150



# LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY DOCKET NO.

9676-314-999

APPLICATION NO.

10/692,785

APPLICANT

BOSCHETTI, E. et al.

FILING DATE

October 27, 2003

GROUP

1618

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	D01						
	D02						
	D03						
	D04						
	D05						
	D06						
	D07						
	D08						
	D09						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	E01							

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

F01	Iwase, K <i>et al.</i> , "Hand-Assisted Laparoscopic Splenectomy for Idiopathic Thrombocytopenic Purpura During Pregnancy," <i>Surg Laparosc Endosc Percutan Tech.</i> 11: 53-56 (2001).
F02	Iwase, K. <i>et al.</i> , "Laparoscopically Assisted Splenectomy Following Preoperative Splenic Artery Embolization Using Contour Emboli for Myelofibrosis with Massive Splenomegaly," <i>Surg Laparosc Endosc Percutan Tech.</i> 9: 197-202 (1999).
F03	Iwase, K <i>et al.</i> , "Splenic Artery Embolization Using Contour Emboli Before Laparoscopic or Laparoscopically Assisted Splenectomy," <i>Surg Laparosc Endosc Percutan Tech.</i> 12: 331-336 (2002).
F04	Osuga, K. <i>et al.</i> , "A new embolic material: SAP-microsphere," <i>Nippon Rinsho.</i> 59 Suppl 6: 534-538 (2001).
F05	Hori, S. <i>et al.</i> , "An Experimental Study of a New Embolic Material—Lipiodol Suspension of Water-Absorbent Particle," <i>Nippon ACTA Radiologica</i> 53: 50-56 (1993).
F06	Jiaqi, Y <i>et al.</i> , "A New Embolic Material: Super Absorbent Polymer (SAP) Microsphere and Its Embolic Effects," <i>Nippon ACTA Radiologica</i> 56: 19-24 (1996).
F07	Hori <i>et al.</i> , "A study of development and practical uses of new arterial embolic materials (Super Water-Absorbent Resins," <i>Innervision</i> 13: 24 (1998).
F08	Hori <i>et al.</i> , "Vessel Embolic Materials," <i>Chiryogaku (Study of Therapy)</i> 33: 109-112 (1999).
F09	
F10	
F11	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.